

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Reviewed by: RALPH GOSNEY, P.E.

GENERAL INFORMATION:

Name:	Owensboro Grain Biodiesel, L.L.C
Address:	1145 Ewing Road Owensboro, Kentucky 42302
Date application received:	December 16, 2005
SIC/Source description:	2899, Biodiesel Production
Source ID #:	21-059-00211
Source A.I. #:	77459
Activity #:	APE20060001
Permit number:	F-06-010

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Potential (tpy)
PM/PM <sub>10</sub>	0.00
SO <sub>2</sub>	0.00
NO <sub>x</sub>	0.00
CO	0.00
VOC	13.94
Single HAP > 10 tpy	None
Total HAPs > 25 tpy	NA

Note: Proposed new source. No actual emissions to date.

**SOURCE DESCRIPTION:**

Owensboro Grain Biodiesel, L.L.C. has proposed the installation of a new source that will produce biodiesel fuel. The source will consist of a biodiesel production unit having a maximum production rate of 42,000 pounds of biodiesel per hour, 5,100 pounds of crude glycerine per hour and 550 pounds of fatty acids per hour. The raw materials used are refined vegetable oil, methanol and sodium methoxide.

**EMISSIONS AND OPERATING CAPS DESCRIPTIONS:**

Owensboro Grain Biodiesel has requested voluntary permit emission limits of 9 tons per year (tpy) or less of a single hazardous air pollutant (HAP) and 22.5 tpy or less of combined HAPs. Compliance with these limitations shall also limit total volatile organic compound (VOC) emissions from the source to 90 tpy or less. Compliance with these permit limits shall make the requirements of 401 KAR 52:020, Title V permits, not applicable to this source. Compliance with these limits shall also make the requirements of 40 CFR Part 63 for major sources of HAP emissions, as incorporated by reference at 401 KAR 63:002, not applicable to this source.